

## Plastic pressure sensors with tube connection



**FOR AIR AND  
NON AGGRESSIVE GASES**

**General:**

for use with  
GMH 31xx, GDUSB: type GMSD ... -K31,  
GMH 51xx: type GMSD ... -K51

**Application:**

air and non aggressive gases  
*Plastic pressure sensors are not suitable for water / liquids.*

## Sensors for measuring pressure difference

for differential pressure measuring (both pressures are connected) as well as for relative pressure measuring (pressure / vacuum, one terminal is left open)

	GMSD 2,5 MR ..	GMSD 25 MR ..	GMSD 350 MR ..	GMSD 2 BR ..	GMSD 10 BR ..
<b>Measuring range:</b>	-1.999 ... +2.500 mbar	-19.99 ... +25.00 mbar	-199.9 ... +350.0 mbar	-1000 ... +2000 mbar	-1.00 ... +10.00 bar
<b>Overload:</b>	max. 200 mbar	max. 300 mbar	max. 1 bar	max. 4 bar	max. 10.34 bar
<b>Resolution:</b>	0.001 mbar (0.1 Pa)	0.01 mbar (1 Pa)	0.1 mbar	1 mbar	10 mbar
<b>Accuracy (typ.)</b>					
<b>Hysteresis / linearity:</b>	± 0.2 % FS	± 0.2 % FS	± 0.2 % FS	± 0.2 % FS	± 0.2 % FS
<b>temperature influence (from 0-50 °C)</b>	± 1.0 % FS	± 0.5 % FS	± 0.4 % FS	± 0.4 % FS	± 0.4 % FS
<b>OPTION Higher probe accuracy:</b>			±0.1 %/±0.2 % FS	±0.1 %/±0.2 % FS	±0.1 %/±0.2 % FS
<b>GMSD ... - K31</b>					
<i>Art. no.</i>	601039	601148	601154	601170	601183
<b>GMSD ... - K51</b>					
<i>Art. no.</i>	601038	601149	601157	601171	601184

## Absolute pressure sensors

for absolute pressure measuring (one terminal is without functionality)

	GMSD 1,3 BA ..	GMSD 2 BA ..	GMSD 7 BA ..
<b>Measuring range:</b>	0 ... 1300 mbar abs.	0 ... 2000 mbar abs.	0.00 ... 7.00 bar abs.
<b>Overload:</b>	max. 4 bar abs.	max. 4 bar abs.	max. 10,34 bar abs.
<b>Resolution:</b>	1 mbar	1 mbar	10 mbar
<b>Accuracy (typ.)</b>			
<b>Hysteresis / linearity:</b>	± 0.2 % FS	± 0.2 % FS	± 0.2 % FS
<b>Temperature influence (from 0-50 °C)</b>	± 0.4 % FS	± 0.4 % FS	± 0.4 % FS
<b>OPTION Higher probe accuracy:</b>		±0.1 % FS (hysteresis.. linearity); ±0.2 % FS (temperature influence 0 ... 50 °C)	
<b>GMSD ... - K31</b>			
<i>Art. no.</i>	601192	601196	601200
<b>GMSD ... - K51</b>			
<i>Art. no.</i>	601193	601197	601201

**Specifications:**

<b>Sensor:</b>	piezoresistive pressure sensor
<b>Pressure connection:</b>	2 connection pins for tubes 6 x 1 mm (6 mm inside-Ø and 4 mm outside-Ø)
<b>Electronics:</b>	PC board with amplifier and data memory for sensor data (measuring range / calibration etc.) integrated in sensor housing
<b>Working temperature:</b>	0 ... +50 °C
<b>Relative humidity:</b>	0 ... +95 % RH (non condensing)
<b>Storage temperature:</b>	-25 ... +70 °C
<b>Housing:</b>	ABS plastic with suspension eye, dimensions do not incl. conn. pin: 68 x 32.5 x 15 mm (H x W x D), dimensions with connection pin: 68 x 32.5 x 27.5 mm.
<b>Weight:</b>	approx. 75 g (...-K51: approx. 82 g)
<b>Device connection:</b>	
<b>GMSD ... - K31:</b>	1.2 m PVC connection cable, screened with integral 6-pin
<b>GMSD ... - ex:</b>	Mini-DIN-plug, lockable
<b>GMSD ... - K51:</b>	1 m PVC connection cable, screened with 7-pin bayonet plug

**Options:**

<b>Ex-protection</b>	
<b>Higher probe accuracy</b>	by multi point calibration Additional individual linearisation points are stored in sensor memory. (not possible for GMSD 2,5 MR and GMSD 25 MR!)
<b>ISO-WPD5</b>	<i>Art. no. 602514</i> Certificate of calibration: 5 points ascending, 5 points descending